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~~-(SYSTEM AND METHOD FOR ASSIGNING RATINGS TO MUTUAL FUNDS AND
OTHER INVESTMENT FUNDS BASED ON THE VALUE OF VARIOUS FUTURE AND
OPTION SECURITIES)~~

5 ~~{System and method for assigning ratings to mutual funds and other investment funds based on
the value of various future and option securities~~

~~Abstract}~~

[FIELD OF THE INVENTION]

The present invention ~~{is a }~~**[relates to a computer-implemented]** system and method for
10 assigning ratings ~~{(the) [(“Ratings”) (on mutual funds and other) (to various)] investment
(funds collectively) [vehicles (the “Funds”) (based on various) [using] information (gleaned)
from public and privately traded financial (currency, interest rate and other futures, along with
options on said futures (} [futures (the) collectively the “Futures” (}. The system combines
information on the historical rates of return and variability in the rates of return of)].~~

15 **BACKGROUND OF THE INVENTION**

Futures provide information on expected future returns in various investment areas or
asset classes. For example, a financial future on the S&P 500 for the period ending June
2000 is a representation of what the financial markets expect the value of the S&P 500 will
be in June 2000. Financial futures are now available for a number of segments of the
20 market, such as US value stocks, US growth stocks, small capitalization stocks, large
capitalization stocks, US Treasury Bonds, high yields bonds, etc.

SUMMARY OF THE INVENTION.

By combining information on] the Funds with the expected range of future returns ~~{for various
asset classes as determined}~~, as implied] by the pricing of the ~~{Futures. The rating for the~~

25 Funds ~~(the “Rating”) incorporates the} [Futures, one can derive a] range of expected future
returns, the {variability of past returns, and the level of risk. The benefit of the invention is that it
will enable investors to evaluate with greater ease the likely returns and risks for various Funds}
[volatility of future returns, and a rating, which reflects the expected return and the risk of
the Fund.]~~

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~~References Cited}~~

[DETAILED DESCRIPTION OF THE INVENTION.]~~{U.S. Patent Documents}~~~~B4839804~~~~BJun., 1989~~5 ~~BRoberts~~~~B364/408~~~~B4953085~~~~BAug., 1990~~~~BAtkins~~10 ~~B364/408~~~~B5132899~~~~BJul., 1992~~~~BFox~~~~B364/408~~15 ~~B5148365~~~~BSep., 1992~~~~BDembo~~~~B703/36~~~~B5222019~~20 ~~BJun., 1993~~~~B Yoshino~~~~B364/408~~~~B5237500~~~~BAug., 1993~~25 ~~B Perg~~~~B364/408~~~~B5471575~~~~BNov., 1995~~~~B Giansante~~

~~8395/144-~~~~85563783-~~~~8Oct., 1996-~~~~8Stolfo-~~5 ~~8364/408-~~~~85884287-~~~~8April, 1997-~~~~8Edcsess-~~~~8705/36-}~~10 ~~+~~~~Claims-~~

~~1. A system for assigning Ratings to Funds using information gleaned from the pricing of Futures. Expected future returns for the Funds are combined with information on the relative performance of the Fund to determine the Rating.~~

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~~2. The use of Futures for assigning Ratings to the relative attractiveness of Funds~~

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~~3. A listing of the expected range of future returns for the Funds based on pricing and volatility information for the Futures.~~

20 ~~-~~~~-~~~~-~~~~-~~~~Description-~~25 ~~FIELD OF THE INVENTION~~ The present invention relates to a computer-implemented system

~~and method for assigning ratings ("Ratings") to various investment vehicles (the "Funds") using information from public and privately traded financial futures (the collectively the "Futures").~~

~~BACKGROUND AND SUMMARY OF THE INVENTION~~ Futures provide information on expected future returns in various investment areas or asset classes. For example, a financial

future on the S&P 500 for the period ending June 2000 is a representation of what the financial markets expect the value of the S&P 500 will be in June 2000. Financial futures are now available for a number of segments of the market, such as US value stocks, US growth stocks, small capitalization stocks, large capitalization stocks, US Treasury Bonds, high yields bonds, etc. By combining information on the Funds with the expected range of future returns, as implied by the pricing of the Futures, one can derive a range of expected future returns, the volatility of future returns, and a rating, which reflects the expected return and the risk of the Fund.

Expanding on the example of the S&P 500 future and a large capitalization mutual fund, if the future indicated that the expected return was an annualized 7%. Using a modification of the Black-Scholes (a widely used option pricing equation developed in 1973 by Fisher Black and Myron Scholes used to price OTC options), one could determine that there was a 66% chance that the return would be within 5 and 9% and a 95% chance that the return would be within 4 and 10% for the period ending June 2000. If the Fund had a historic return that was on average 1% less than the S&P 500, but with the same level of volatility, then the mean expected return would be 6%, and the range of expected returns at the 66% level of confidence would be 4 to 8% (i.e., 1% less than the example with the S&P 500). In the same way, the range of returns at the 95% confidence level would be 3 to 9% (i.e., 1% less than the example with the S&P 500).

In assigning ratings, the expected future return and volatility of future return is compared to that of other investment classes. For example, if large capitalization funds were expected to return 7% with a 4% range at the 66% confidence level, compared to a South American equity fund with an expected return of 5% and a range of 4% at the 66% probability level, the South American sector would be less appealing and therefore have a weaker rating. Note, the relative returns of the Fund are incorporated into the expected future return for the sector in deriving ratings. The Rating represents the expected risk and reward.

Note, the Black-Scholes model is useful for pricing options, whereas we are using futures pricing to determine the expected future returns for various investment areas, and combining that information with the relative performance of a fund and other information such as our assessment of the capability of the investment managers, support staff and characteristics of portfolio securities to derive a rating. Firms that rate Funds use mainly historical returns in assigning

ratings.

DIAGRAM

Attached is an illustration of the major steps for assigning Ratings.

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